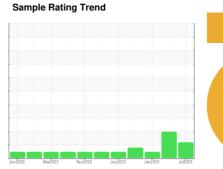


# **OIL ANALYSIS REPORT**



PETRO CANADA DURON SHP 15W40 (22 GAL)





### **DIAGNOSIS**

### Recommendation

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

All component wear rates are normal.

### Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service (see recommendation).

N SHP 15W40 (2:	2 GAL)	Jun2020	Mar2022 Nov2022	Jun2023 Jan2024	Jul2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0122288	GFL0117882	GFL0107115
Sample Date		Client Info		17 Jul 2024	24 Apr 2024	25 Jan 2024
Machine Age	hrs	Client Info		11604	11604	11067
Oil Age	hrs	Client Info		600	600	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				ATTENTION	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<b>△</b> 3	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	17	18	6
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	4	4	3
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	1	2	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	5	9	13
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	62	59	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	895	902	935
Calcium	ppm	ASTM D5185(m)	1070	972	966	1006
Phosphorus	ppm	ASTM D5185(m)	1150	978	936	988
Zinc	ppm	ASTM D5185(m)	1270	1123	1130	1143
Sulfur	ppm	ASTM D5185(m)	2060	2449	2368	2763
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2	3	4
Sodium	ppm	ASTM D5185(m)		<b>451</b>	278	86
Potassium	ppm	ASTM D5185(m)	>20	65	42	13
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	0.3	0
Nitration	Abs/cm	ASTM D7624*	>20	10.5	10.2	6.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	20.8	18.3



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number : 02648637 Unique Number : 5814189

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0122288

Received **Tested** 

: 18 Jul 2024 Diagnosed : 19 Jul 2024 - Kevin Marson

: 18 Jul 2024

Test Package : MOB 1 ( Additional Tests: Glycol )

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

GFL Environmental - 217 - Aurora 14131 BAYVIEW AVE, AURORA YARD

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T: F: (905)713-2445

Submitted By: Scott Ewan